

U.S. Serial No. 10/619,432

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IN THE CLAIMS

1. (Canceled).

2. (Currently amended) The flow sensing device according to ~~Claim 1~~ Claim 4, wherein said case is formed by bonding a metal component and plastic components together by a silicone adhesive, and wherein said corrosive compositions entered from the outside of said case into the inside thereof via said silicone adhesive, are trapped by said trapping means.

3. (Currently amended) The flow sensing device according to ~~Claim 1~~ Claim 4, wherein said trapping means has corrosiveness by said entering corrosive compositions, equal to or larger than that of the wiring lines of said electronics circuitry.

4. (Currently amended) ~~[[The]]~~ A flow sensing device,
~~according to Claim 1, comprising:~~
a flow sensing element for sensing a flow of a gas;
electronics circuitry for processing a signal from said
flow sensing element;

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a case for protecting said electronics circuitry provided inside said case; and

trapping means for trapping corrosive compositions entering from the outside of said case into the inside thereof,

wherein said flow sensing device is installed in an intake air passage of an engine by inserting said flow sensing element into said intake air passage of the engine; and

wherein said trapping means comprises silver, copper, a silver alloy containing at least 83% of silver, or a copper alloy containing at least 83% of copper.

5. (Currently amended) The flow sensing device according to ~~Claim 1~~ Claim 4, further comprising a board on which said electronics circuitry and said trapping means are provided.

6. (Currently amended) The flow sensing device according to ~~Claim 1~~ Claim 4, wherein said corrosive compositions comprise sulfur or compounds thereof.

7. (Currently amended) The flow sensing device according to ~~Claim 2~~ Claim 4, wherein said trapping means is

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disposed between said silicone adhesive and said electronics circuitry.

8. (Currently amended) ~~[[The]]~~ A flow sensing device, ~~according to Claim 1,~~ comprising:

a flow sensing element for sensing a flow of a gas;
electronics circuitry for processing a signal from said
flow sensing element;

a case for protecting said electronics circuitry provided
inside said case;

trapping means for trapping corrosive compositions
entering from the outside of said case into the inside
thereof; and

~~further comprising~~ a gel covering said electronics circuitry, wherein said trapping means is mixed into said gel;
and

wherein said flow sensing device is installed in an
intake air passage of an engine by inserting said flow sensing
element into said intake air passage of the engine.

9. (Currently amended) ~~[[The]]~~ A flow sensing device, ~~according to Claim 1,~~ comprising:

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a flow sensing element for sensing a flow of a gas;
electronics circuitry for processing a signal from said
flow sensing element;
a case for protecting said electronics circuitry provided
inside said case; and
trapping means for trapping corrosive compositions
entering from the outside of said case into the inside
thereof,
wherein said flow sensing device is installed in an
intake air passage of an engine by inserting said flow sensing
element into said intake air passage of the engine; and
wherein said trapping means is electrically connected to
the ground potential of said electronics circuitry.

10. (Original) A flow sensing device, comprising:
a flow sensing element for sensing a flow of a gas;
electronics circuitry for processing a signal from said
flow sensing element; and
a case for protecting said electronics circuitry provided
inside said case,
wherein said flow sensing device is installed in an
intake air passage of an engine by inserting said flow sensing
element into said intake air passage of the engine; and

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wherein silver, copper, a silver alloy containing at least 83% of silver, or a copper alloy containing at least 83% of copper each of which hardly affects the function of said electronics circuitry even if it becomes corroded, is disposed inside said case in an exposed state.

11. (Original) The flow sensing device according to Claim 10, further comprising a board having said electronics circuitry mounted thereon, wherein said silver, copper, a silver alloy containing at least 83% of silver, or a copper alloy containing at least 83% of copper, is provided on said board.

12. (Canceled).

13. (Currently amended) The electronics apparatus according to ~~Claim 12~~ Claim 14, wherein said trapping means has corrosiveness by said entering corrosive compositions, equal to or larger than that of the wiring lines of said electronics circuitry.

14. (Currently amended) ~~[[The]]~~ An electronics apparatus, ~~according to Claim 12, comprising:~~

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electronics circuitry;

a case for protecting said electronics circuitry provided
inside said case; and

trapping means for trapping corrosive compositions
entering from the outside of said case into the inside
thereof,

wherein said electronics apparatus is installed in an
engine room; and

wherein said trapping means comprises silver, copper, a
silver alloy containing at least 83% of silver, or a copper
alloy containing at least 83% of copper.

15. (Currently amended) The electronics apparatus
according to ~~Claim 12~~ Claim 14, further comprising a board on
which said electronics circuitry and said trapping means are
provided.

16. (Currently amended) The electronics apparatus
according to ~~Claim 12~~ Claim 14, wherein said corrosive
compositions comprise sulfur or compounds thereof.

17. (Currently amended) The electronics apparatus
according to ~~Claim 12~~ Claim 14, wherein said case is formed by

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bonding a plurality of components together by an adhesive, and wherein said trapping means is disposed between said adhesive and said electronics circuitry.

18. (Currently amended) ~~[[The]]~~ An electronics apparatus, ~~according to Claim 12, comprising:~~
electronics circuitry;
a case for protecting said electronics circuitry provided inside said case;
trapping means for trapping corrosive compositions entering from the outside of said case into the inside thereof; and
~~further comprising~~ a gel covering said electronics circuitry, inside said case, wherein said trapping means is mixed into said gel;
wherein said electronics apparatus is installed in an engine room.

19. (Currently amended) The electronics apparatus, ~~according to Claim 12, comprising:~~
electronics circuitry;

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a case for protecting said electronics circuitry provided inside said case; and

trapping means for trapping corrosive compositions entering from the outside of said case into the inside thereof,

wherein said electronics apparatus is installed in an engine room; and

wherein said trapping means is electrically connected to the ground potential of said electronics circuitry.

20. (Currently amended) The electronics apparatus according to ~~Claim 12~~ Claim 14, wherein said electronics apparatus comprises any one of a flow sensing device for sensing a flow of an intake gas in said engine, a pressure sensor for sensing a pressure of the intake gas in said engine, an air-fuel ratio sensor for sensing an air-fuel ratio of exhaust gases from said engine, and an electronic throttle device for controlling the flow of the intake gas in said engine.

21. (Currently amended) A flow sensing device according to ~~Claim 1~~ Claim 4, wherein said corrosive compositions are

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compositions included in a gas which goes into inside of said case.